

Chemical Name	Marty Kanarek	Lynda Knobeloch, Dr. Henry Anderson, John Hausbeck	Rudy Salcedo and Erika Pape	Jeff Myers	California Top 5 Children's Health Threats	EPA's NATA: 34 HAPs of Concern in US	Annual NR445 Threshold (short stack <25 ft) lbs/year	Votes	Jeff M's Comments	List (l), cut (c), or source category (s)	JM Second round suggestions - if a chemical is in the 1999 AEMS inventory, it is likely to be emitted in WI, but judgment has to be made about likelihood of small sources being emitters
Dioxins (2,3,7,8 TCDD)	X	X	X	X	X	X	0.0001	6	Source category of incinerators deals with major sources?	s	place this in source category
Lead (all forms)		X	X	X	X	X	267	5	Do we need lead on the short list? This is a criteria pollutant and is not listed in NR 445, except for the carcinogenic forms lead acetate and lead phosphate	c	cut - it is a Criteria Pollutant - 1.5 ug/M3 qtrly avg. including background
Acrolein		X		X	X	X	3.55	4		l	list- 18 out of 31 sources in inventory are above threshold
Arsenic	X		X	X		X	0.413	4		l	list - 130 sources in inventory, but most sources are power plants/paper mills coal combustion
Chromium, hexavalent		X	X	X		X	0.148	4	Does listing chrome platers cover all significant small emitters?	s	place this in a source category
Mercury	X	X		X		X	4.7	4	Do existing regs. and mercury reduction plan address the issue for smallest known sources? Should we list mercury source categories in list of industries that must report mercury emissions?	c	cut- existing mercury rules are addressing this pollutant and developing emissions inventory
Asbestos	X	X	X				2.43	3	We have a statewide set of rules for asbestos and contractors	c	cut - adequate statewide rules already exist for small sources
Benzene	X		X			X	228	3		l	list - common pollutant from many processes
Chlorine dioxide		X	X	X			130	3	Not a VOC or PM	c	cut - only expected sources in inventory are already in permit system (e.g., paper mills)
Dichloromethane (methylene chloride)			X	X		X	3,781	3	Not a VOC or PM; One source has large emissions > 300,000 lbs/yr	l	list - 25 sources in inventory (10 above threshold) - common chemical
Diesel Exhaust Particulate			X	X	X		888	3	California estimates that up to 70% of urban cancer risk may be due to this pollutant; Existing DNR proposal to regulate some stationary sources	c	cut- proposed rule addresses this in a source category approach method, by type of engine, hours of use, etc.

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Formaldehyde	X		X			X	137	3	Very common in many products; also product of many reactions and incomplete combustion	l	list - 341 sources in inventory (167 above threshold) - common chemical
Hexachlorobenzene	X		X			X	0.964	3		c	cut - no sources in inventory - emissions unlikely
Hydrogen cyanide	X		X	X			533	3	Not a VOC or PM	l	list - highly acutely toxic - 3 sources in inventory, 2 above threshold
Isocyanates, all		X	X	X			3.55	3	Strong lung sensitizers; used in coatings, foams, and many small businesses	l	list as indiv. chems or group them- listed chems and thresholds - hexamethylene diisocyanate (1.8), isophorone diisocyanate (21), methylene bisphenyl diisocyanate (3.6), Toluene 2,4- & 2,6 diisocyanate mixtures (12), Methyl isocyanate. All except last one have sources in inventory above respective thresholds.
Methyl isocyanate	X	X		X			22	3		c	cut - include with all isocyanates - no sources in inventory - potent lung sensitizer
Strong inorganic acid mists containing >35% by wt.		X	X	X			2.43	3	see sulfuric acid if not mist, or if <35% by wt	c	cut - combine with sulfuric acid
Sulfuric acid (if >35% by wt. Then threshold is 2.43 lbs/yr)		X	X	X			471	3	see Strong inorganic acid mists containing sulfuric acid, if it is a mist >35% by wt	l	list - 49 sources, 30 over threshold for sulfuric acid - many are coal fired boilers
Tetrachloroethylene (Perchloroethylene)			X	X		X	301	3	Not a VOC or PM	l	list - 10 sources, 6 over the threshold - common solvent/degreaser
Trichloroethylene			X	X		X	888	3		l	list - 29 sources in inventory, 26 above the threshold - common solvent/degreaser
Vinyl chloride	X		X			X	202	3		c	cut - not likely to be emitted. No sources in 1999 inventory other than landfills and wastewater trmt plants all below 202 lbs/yr
Acrylonitrile				X		X	26.1	2		c	cut not likely to be emitted by small source 4 sources > than 26.1 lbs/yr on 1999 inventory
Ammonia			X	X			8,194	2	Not a VOC or PM	l	list - 53 sources in inventory, 22 above the threshold
Arsine		X				X	8.88	2	Not a VOC or PM	c	cut - not likely to be emitted. No sources in 1999 inventory
BCME (Bis chloromethyl ether)		X	X				2.43	2		c	cut - no sources in inventory - emissions unlikely
Benzo(a)pyrene	X		X				1.62	2	Benzo(a)Pyrene is one of the POMs	c	cut - only one source is above 1.62 lbs/yr large paper mill - other significant emissions sources unlikely
Beryllium	X					X	0.74	2	Used in Electronics Industry, and manuf. of fiber optics	l	list - 45 sources, 24 above threshold - most sources are power plants/coal combustion
Cadmium	X					X	0.987	2		l	list - 131 sources, 46 above threshold - most sources are power plants/coal combustion

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Carbon Tetrachloride			X			X	118	2		l	list - 8 sources, 4 above threshold - common solvent
Chlorine			X	X			682	2	Not a VOC or PM	l	list - 41 sources in inventory, 12 above threshold
Chlorine trifluoride		X		X			247	2	Not a VOC or PM	c	cut - no sources in inventory - emissions unlikely
Chromium and compounds		X				X	235	2		s	source category
CMME (Chloromethyl methyl ether)		X	X				2.43	2		c	cut - no sources in inventory - emissions unlikely
Dichloropropene, 1,3-			X			X	444	2		c	cut - area source emissions according to EPA no sources in inventory
Ethylene dichloride			X			X	68.3	2		c	cut - no sources in inventory - emissions unlikely
Ethylene oxide				X		X	20.2	2		l	list - 20 sources in inventory, 10 above threshold
Nickel and compounds				X		X	6.83	2		l	list - 150 sources in inventory, 62 above threshold
Octachloronaphthalene		X	X				47.1	2		c	cut - no sources in inventory - emissions unlikely
Organophosphate pesticides, all		X	X				???Many	2	JM says delete this listing. This is a category; NR 445	c	cut - pesticide - no pesticide manuf. In WI
Paraquat		X	X				47.1	2		c	cut - pesticide - no pesticide manuf. In WI
PCBs		X				X	0.1	2	any open source categories? Sewage and paper sludge incineration, medical	s	source category
Pentachloronaphthalene		X	X				235	2		c	cut - no sources in inventory - emissions unlikely
Pentachlorophenol		X	X				235	2		c	cut - no sources in inventory - emissions unlikely
POM (polycyclic organic matter)					X	X	1.62	2	This is a category or Products of incomplete combustion: NR 445 lists ~15 carcinogenic PAHs	c	cut - not in NR 445 except individually - usually found as product of incomplete combustion - most small emitters not likely to generate 1.62 pounds POM/yr from incomplete combustion sources
Tetrachloroethane, 1,1,2,2-			X			X	3,232	2	This chem can be eliminated from small emitter list of chems of concern. Threshold is over 2,000 pounds (1 ton) and it is a VOC or PM.	c	cut - threshold is > 2000 lbs and it is VOC or PM
Xylene-a,a' -diamine, m-		X	X				65.4	2		c	cut - no sources in inventory - emissions unlikely
Acetaldehyde						X	808	1		l	list - 42 sources in inventory, 20 above threshold
Acrylamide		X					1.37	1		c	cut - no sources in inventory - emissions unlikely

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Acrylic acid				X			178	1		c	cut - 2 sources in inventory well below threshold of 178 lbs
Bromine		X					308	1	Not a VOC or PM	c	cut - only 8 sources in inventory - emissions are well below 308 lbs/yr
Bromine pentafluoride		X					337	1		c	cut - no sources in inventory - emissions unlikely
Butadiene, 1,3-						X	6.35	1		c	cut - most emissions are from mobile sources - no sources in inventory
Carbon disulfide				X			14,653	1	Not a VOC or PM	c	cut - only 1 source in state above threshold - others unlikely and emission threshold is high
Chloroform						X	77.3	1		I	list - 24 sources in inventory, 23 above threshold
Cobalt, metal dust		X					9.41	1		I	list - 85 sources in inventory, 13 (mostly coal paper/utility emissions)
Coke Oven Emissions						X	2.87	1	Not a VOC or PM	c	cut - no sources in inventory - emissions unlikely
Diborane		X					53.3	1	Not a VOC or PM	c	cut - no sources in inventory - emissions unlikely
Diglycidyl ether		X					250	1		c	cut - no sources in inventory - emissions unlikely
Diquat		X					47.1	1		c	cut - pesticide - no pesticide manuf. In WI
Ethylene dibromide						X	8.08	1		c	cut - no sources in inventory - emissions unlikely
Fluorine				X			731	1	Not a VOC or PM	c	cut - no sources in inventory - emissions unlikely
Hydrazine						X	0.363	1		c	cut - one source in inventory at 3.7 lbs/yr but is already permitted (not small emitter) - other sources unlikely
Hydrochloric acid (hydrogen chloride)				X			3,554	1	Not a VOC or PM	I	list - 84 sources in inventory, 57 above threshold
Hydrogen bromide				X			6,491	1	Not a VOC or PM	c	cut - no sources in inventory - emissions unlikely
Hydrogen fluoride				X			1,606	1	Not a VOC or PM	I	list - 59 sources in inventory, 40 above threshold
Hydrogen peroxide				X			654	1	Not a VOC or PM	c	cut - 2 sources in inventory well below threshold of 654 lbs
Hydrogen sulfide				X			6,559	1	Not a VOC or PM; Would odor warn Health Depts. Or DNR of a problem at smaller emission rates?	I	list - 16 sources, 9 above threshold
Indium		X					47.1	1		c	cut - no sources in inventory - emissions unlikely
Iodine				X			679	1	Not a VOC or PM	c	cut - only 7 sources in inventory all well below threshold of 679 lbs/yr
Maleic anhydride				X			189	1		c	cut - only 1 source in inventory and well below threshold of 189 lbs/yr

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Manganese compounds						X	94	1	Mn is used in paints, metal fabrication, foundries, etc.	l	list - 138 sources in inventory, 45 above threshold - nervous system/brain toxin
Methyl hydrazine		X					8.87	1		c	cut - no sources in inventory - emissions unlikely
Organotin compounds		X					47.1	1		c	cut - e.g., tributyl tin no sources in inventory - emissions unlikely
Oxalic acid		X					471	1		c	cut - no sources in inventory - emissions unlikely
Phenylenediamine, p-		X					47.1	1		c	cut - no sources in inventory - emissions unlikely
Phosphine		X					196	1	Not a VOC or PM	c	cut - is a pesticide and use is not covered, only manufact.- no sources in inventory - emissions unlikely
Phosphoric acid		X					471	1		l	list - 18 sources in inventory, 5 over threshold
Phosphorus (yellow)		X					47.7	1		c	cut - 3 sources in inventory, 1 is 37 lbs/yr others are lower additional sources unlikely
Phosphorus pentachloride		X					401	1	Not a VOC or PM	c	cut - no sources in inventory - emissions unlikely
Platinum, soluble salts		X					0.941	1		c	cut - no sources in inventory - emissions unlikely
Propylene dichloride						X	711	1		c	cut - no sources in inventory - emissions unlikely
Rhodium, soluble salts		X					471	1		c	cut - no sources in inventory - emissions unlikely
Selenium compounds		X					94.1	1		l	list - 47 sources in inventory, 11 over threshold but most sources are coal combustion utility/paper (larger sources)
Tellurium and compounds		X					47.1	1		c	cut - no sources in inventory - emissions unlikely
Thallium (soluble compounds)		X					47.1	1		c	cut - only 2 sources in inventory, both power plants with permits already - other sources unlikely
Toluene	X						71,075	1	This chem can be eliminated from small emitter list of chems of concern. Threshold is way over 2,000 pounds (1 ton) and it is a VOC or PM.	c	cut - threshold is > 2000 lbs and it is VOC or PM
Trimellitic anhydride		X					26.2	1		l	list - 2 sources in inventory, 0 sources above, 2 sources about 12-13 lbs/yr or about half of threshold
Triorthocresyl phosphate		X					47.1	1		c	cut - no sources in inventory - emissions unlikely
Tungsten, Soluble compounds		X					471	1		c	cut - 6 sources in inventory, all well below threshold
Uranium and compounds		X					94.1	1		c	cut - only one source in inventory, it is a coal plant and it is well below the threshold

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Warfarin		X					47.1	1	Pesticide - use not regulated. Any small manufact., packaging, disposal in WI?	c	cut - pesticide - no pesticide manuf. In WI